Missouri Assessment Program
Spring 2002

Mathematics

Released Items
Grade 8

Confidential

THE SHALLWOOD MIDDLE SCHOOL FUN NIGHT!
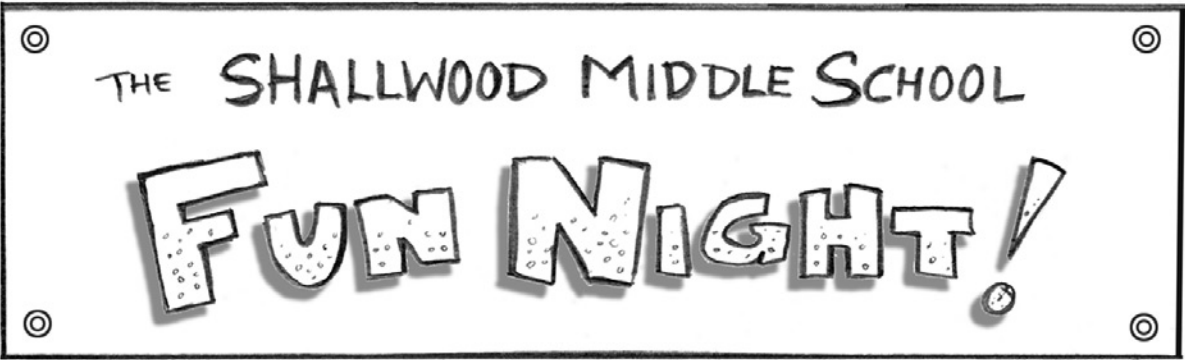
*D*irections

Do Number 10 about Shallwood Middle School Fun Night. Show all of your work and write your answers directly in this book.

10 For the Shallwood Middle School Fun Night next month, 600 students voted for their favorite activity. The results and the costs associated with each activity are shown in the table below.

FAVORITE ACTIVITIES FOR FUN NIGHT

Favorite Activity	Percentage Who Voted	Cost (in dollars)
Playing music	21	250
Movies	10	30
Volleyball	15	10
Board games	2	60
Arcade games	25	200
Miniature golf	9	50
Free-throw shot	15	15
Face painting	3	10

Session 1

Fun Night will have at least three activities, but no more than six activities. The committee can spend up to $300 on all the activities.

In the box below, write a recommendation to the committee about which activities to select for Fun Night. To ensure good attendance, at least 50% of the total number of students must have voted for the combination of activities that you choose. Be sure to provide the work to support your recommendation with percentages and costs from the table.

3   Jason baby-sits on weekends for $3.50 per hour. He is saving money for a new stereo. He needs a total of $200.00 to purchase the stereo. So far, Jason has saved $60.00.

Write and solve an equation to find the number of additional hours (*h*) Jason needs to baby-sit to buy the stereo. In the box below, write your answer on the line and provide the work that shows how you arrived at your answer.

_____ hours

5   The ratio of a person's weight on Earth to the person's weight on Mars is 2 to 0.76. If Dennis weighs 122 pounds on Earth, how much would he weigh on Mars? In the box below, write your answer on the line and provide the work that shows how you arrived at your answer.

_____ pounds